

Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1.-44. (cancelled)
45. (previously presented) A processless radiation-imageable lithographic printing precursor comprising a substrate and a dried and aqueous-ineluable coating of a radiation-sensitive medium on the substrate, the radiation-sensitive medium comprising:
- a substance capable of converting radiation into heat; and
 - a plurality of hydrophilic polymer particles, each of the hydrophilic polymer particles comprising: at least one thermally softenable hydrophobic polymer, at least one hydrophilic polymer and at least one bonding agent chemically bonded to the hydrophobic polymer and to the hydrophilic polymer.
46. (Original) The precursor of claim 45, wherein the coating is capable of becoming hydrophobic under the action of heat.
47. (Original) The precursor of claim 46, wherein the substance capable of converting radiation into heat is hydrophobic.
48. (Original) The precursor of claim 46, wherein the radiation is infrared radiation.
49. (Original) The precursor of claim 48, wherein the infrared radiation has wavelength between 700nm and 1200nm.
50. (Original) The precursor of claim 46, wherein the hydrophilic polymer has a primary amine group.

51. (Original) The precursor of claim 46, wherein the at least one hydrophilic polymer is at least one of a saccharide, a chitosan polymer, a polyethyleneimine polymer, a polyamine polymer, a polyvinylamine polymer, a polyallylamine polymer, a polydiallylamine polymer, an amino(meth)acrylate polymer, a polyamide polymer, a polyamide-epichlorohydrin polymer, a polyamine-epichlorohydrin polymer, a polyamidopolyamine-epichlorohydrin polymer, a dicyandiamide-polycondensation product polymer and a copolymer thereof.
52. (Cancelled)
53. (previously presented) A processless radiation-imageable lithographic printing precursor comprising a substrate and a dried and aqueous-ineluable coating of a radiation-sensitive medium on the substrate, the radiation-sensitive medium comprising:
- a. a substance capable of converting radiation into heat; and
 - b. a hydrophilic polymer; and
 - c. at least one copolymer of a hydrophobic monomer and a bonding monomer, the bonding monomer chemically bonded to the hydrophilic polymer and to the hydrophobic monomer.
54. (previously presented) A processless radiation-imageable lithographic printing precursor comprising a substrate and a dried and aqueous-ineluable coating of a radiation-sensitive medium on the substrate, the radiation-sensitive medium comprising:
- a substance capable of converting radiation into heat; and
 - a hydrophilic polymer; and
 - at least one copolymer of a hydrophobic monomer and a bonding monomer, the bonding monomer chemically bonded to the hydrophilic polymer and to the hydrophobic monomer wherein the coating is capable of becoming hydrophobic under the action of heat.

55. (Original) The precursor of claim 54, wherein the substance capable of converting radiation into heat is hydrophobic.
56. (Original) The precursor of claim 55, wherein the radiation is infrared radiation.
57. (Original) The precursor of claim 56, wherein the infrared radiation has wavelength between 700nm and 1200nm.
58. (Original) The precursor of claim 54, wherein the hydrophilic polymer has a primary amine group.
59. (Original) The precursor of claim 54, wherein the at least one hydrophilic polymer is at least one of a saccharide, a chitosan polymer, a polyethyleneimine polymer, a polyamine polymer, a polyvinylamine polymer, a polyallylamine polymer, a polydiallylamine polymer, an amino(meth)acrylate polymer, a polyamide polymer, a polyamide-epichlorohydrin polymer, a polyamine-epichlorohydrin polymer, a polyamidopolyamine-epichlorohydrin polymer, a dicyandiamide-polycondensation product polymer and a copolymer thereof.
60. - 68. (Cancelled)
69. (previously presented) A processless radiation-imageable lithographic printing precursor comprising a substrate and a dried and aqueous-insoluble coating of a radiation-sensitive medium on the substrate, the radiation-sensitive medium comprising hydrophilic polymer particles, the hydrophilic polymer particles being hydrophilic to a substantial depth and each of the hydrophilic polymer particles comprising a hydrophilic polymer and at least one copolymer of a hydrophobic monomer and a monomer that has a carboxylic group, said radiation-sensitive medium further comprising a substance capable of converting radiation into heat.

70. (previously presented) A processless radiation-imageable lithographic printing precursor comprising a substrate and a dried and aqueous-insoluble coating of a radiation-sensitive medium on the substrate, the radiation-sensitive medium comprising hydrophilic polymer particles, the hydrophilic particles being hydrophilic to a substantial depth and comprised of a hydrophilic polymer and at least one copolymer of a hydrophobic monomer and a monomer that has a carboxylic group, wherein the coating is capable of becoming hydrophobic under the action of heat, said precursor further comprising a hydrophobic substance capable of converting radiation into heat.
71. (Cancelled)
72. (Original) The precursor of claim 70, wherein the radiation is infrared radiation.
73. (Original) The precursor of claim 72, wherein the infrared radiation has wavelength between 700nm and 1200nm.
74. (Original) The precursor of claim 70, wherein the hydrophilic polymer has a primary amine group.
75. (Original) The precursor of claim 70, wherein the at least one hydrophilic polymer is at least one of a saccharide, a chitosan polymer, a polyethyleneimine polymer, a polyamine polymer, a polyvinylamine polymer, a polyallylamine polymer, a polydiallylamine polymer, an amino(meth)acrylate polymer, a polyamide polymer, a polyamide-epichlorohydrin polymer, a polyamine-epichlorohydrin polymer, a polyamidepolyamine-epichlorohydrin polymer, a dicyandiamide-polycondensation product polymer and a copolymer thereof.
76. (Cancelled)

77. (previously presented) A processless radiation-imageable lithographic printing precursor comprising a substrate and a dried and aqueous-insoluble hydrophilic coating of a radiation-sensitive medium on the substrate, the radiation-sensitive medium comprising hydrophilic polymer particles, the particles comprising chitosan and at least one thermally softenable hydrophobic polymer, the coating capable of becoming hydrophobic under the action of heat, said precursor further comprising a hydrophobic substance capable of converting radiation into heat.